SEQUENCE LISTING

<110> Brennan, Thomas J.
      Leviten, Michael W.

<120> TRANSGENIC MICE CONTAINING CERBERUS GENE
   DISRUPTIONS

<130> R-67

<140> US 09/887,552
<141> 2001-06-21

<150> US 60/213,670
<151> 2000-06-21

<150> US 60/266,046
<151> 2001-02-01

<150> US 60/282,668
<151> 2001-04-09

<160> 4

<170> FastSEQ for Windows Version 4.0

<210> 1
<211> 1752
<212> DNA
<213> Mus musculus

<220>
<221> misc_feature
<222> 1235, 1313
<223> n = A,T,C or G

<400> 1
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tctggggaag gcagacctat gtgtggatgg ctgccagagt cagggctctt tatcctttcc 180
tctcctagaa aggggtcgca gagatctcca cgtggccaac cacgaggagg cagaagacaa 240
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gaggcagaga gggaagatgc tgtccaggct tggaagattc tggaagaaac ctgagaccga 360
attttacccc ccaagggatg tggaaagcga tcatgtctca tcggggatgc aggccgtgac 420
tcagccagca gatgggagga aagtggagag atcacctcta caggaggaag ccaagaggtt 480
ctggcatcgg ttcatgttca gaaagggccc ggcgttccag ggagtcatcc tgcccatcaa 540
aagccacgaa gtacactggg agacctgcag gactgtgccc ttcaaccaga ccattgccca 600
tgaagactgt caaaaagtcg ttgtccagaa caacctttgc tttggcaaat gcagttccat 660
tcgttttccc ggagaagggg cagatgccca cagcttctgc tcccactgct cgcccaccaa 720
attcaccacc gtgcacttga tgctgaactg caccagccca accccgtgg tcaagatggt 780
gatgcaagta gaagagtgtc agtgcatggt gaagacggaa cgtggagagg agcgcctcct 840
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aattacctca acagaaagca aaacctcaac agaataagtg agggttattc aatctggaaa 960
tgttatgtga gttatataaa gatcagtgga aaatatcttt ctctctccct ctctcccct 1020
ctctcttctc tctattttct ctctctctct ctctctctct ctctctctca 1080
cacacacaca cacacacaca cacacacaca catgtttgtg tttagacagg gtcttatgta 1140
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tcctgagtgc tgggattaca gacatgctcc ataanacata gctcccagaa ggatttttaa 1260
aagagatttt gcatgtttca aagttgcctt tgagactcag aaatattttg atntattgaa 1320
tggccttgcc acagatgtgg gaggcagctt gcttggtggc ccaagtattt ttttttgtt 1380
```

```
cgttcagaat tctccacatg aagttttTac tgttggttat ctggcgttga agaaggaata 1440
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tcccggaata tgaggaaaat acatgaacag tattagagtc acttgaggaa gttactagga 1560
aacgccataa gtctccaagt ·acattgtgag tcattttgaa ggacaatcgt gtatatagac 1620
gaaatcttct actcgtatgc ttttgaatct ctagcaagt taggtttcta tgtttgggct 1680
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attctgaccc tg                                                 1752
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<210> 2
<211> 272
<212> PRT
<213> Mus musculus

<400> 2

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Ala Asp Leu Cys Val Asp Gly Cys Gln Ser Gln Gly Ser Leu Ser Phe
             20                  25                  30
Pro Leu Leu Glu Arg Gly Arg Arg Asp Leu His Val Ala Asn His Glu
         35                  40                  45
Glu Ala Glu Asp Lys Pro Asp Leu Phe Val Ala Val Pro His Leu Met
     50                  55                  60
Gly Thr Ser Leu Ala Gly Glu Gly Gln Arg Gln Arg Gly Lys Met Leu
65                  70                  75                  80
Ser Arg Leu Gly Arg Phe Trp Lys Lys Pro Glu Thr Glu Phe Tyr Pro
                 85                  90                  95
Pro Arg Asp Val Glu Ser Asp His Val Ser Ser Gly Met Gln Ala Val
            100                 105                 110
Thr Gln Pro Ala Asp Gly Arg Lys Val Glu Arg Ser Pro Leu Gln Glu
         115                 120                 125
Glu Ala Lys Arg Phe Trp His Arg Phe Met Phe Arg Lys Gly Ala Pro
     130                 135                 140
Phe Gln Gly Val Ile Leu Pro Ile Lys Ser His Glu Val His Trp Glu
145                 150                 155                 160
Thr Cys Arg Thr Val Pro Phe Asn Gln Thr Ile Ala His Glu Asp Cys
                165                 170                 175
Gln Lys Val Val Val Gln Asn Asn Leu Cys Phe Gly Lys Cys Ser Ser
            180                 185                 190
Ile Arg Phe Pro Gly Glu Gly Ala Asp Ala His Ser Phe Cys Ser His
         195                 200                 205
Cys Ser Pro Thr Lys Phe Thr Thr Val His Leu Met Leu Asn Cys Thr
     210                 215                 220
Ser Pro Thr Pro Val Val Lys Met Val Met Gln Val Glu Glu Cys Gln
225                 230                 235                 240
Cys Met Val Lys Thr Glu Arg Gly Glu Glu Arg Leu Leu Leu Ala Gly
                245                 250                 255
Ser Gln Gly Ser Phe Ile Pro Gly Leu Pro Ala Ser Lys Thr Asn Pro
            260                 265                 270
```

<210> 3
<211> 200
<212> DNA
<213> Artificial Sequence

<220>
<223> Targeting vector

<400> 3

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cagctgcttg ttctcttgcc tctggggaag gcagacctat gtgtggatgg ctgccagagt 120
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caggggctctt tatcctttcc tctcccagaa aggggtcgca gagatctcca cgtggccaac 180
cacgaggagg cagaagacaa                                                 200

<210> 4
<211> 200
<212> DNA
<213> Artificial Sequence

<220>
<223> Targeting vector

<400> 4
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ggtatgcatt ctagagggta aaccaccagt ttgccagaca gggaggacag ctggacagct 120
aggacaaacg gcaaaataga aagagtctgg cgagagctcg ggccttgtct agttccagat 180
tcagtccttt gggtattcat                                                200
```